

5

ABSTRACT OF THE DISCLOSURE

Methods and apparatus are provided for controlling a shutdown of an internal combustion engine. The apparatus comprises an intake manifold configured to conduct an intake charge of air to an intake port of the internal combustion engine and a throttle configured to alter the intake charge of air to the intake port of the internal combustion engine. The apparatus further comprises a controller configured to control the throttle such that a substantial termination of the intake charge of air is provided during the shutdown of the internal combustion engine.